

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	10/772667.app.	US-PGPUB; USPAT	OR	ON	2007/09/13 20:52
S2	2962	(determinant same matrix)	US-PGPUB; USPAT	OR	ON	2007/09/13 20:52
S3	2041	(determinant with matrix)	US-PGPUB; USPAT	OR	ON	2007/09/13 20:52
S4	34	S3 and (encrypt\$3 cipher\$3 encod\$3) with determinant	US-PGPUB; USPAT	OR	ON	2007/09/13 21:03
S5	4	S4 and (permut\$3 permutation)	US-PGPUB; USPAT	OR	ON	2007/09/13 21:03
S6	809	S3 and (encrypt\$3 cipher\$3 encod\$3)	US-PGPUB; USPAT	OR	ON	2007/09/13 21:03
S7	111	S6 and (permut\$3 permutation)	US-PGPUB; USPAT	OR	ON	2007/09/13 21:47
S8	2991	380/30	US-PGPUB; USPAT	OR	ON	2007/09/13 21:03
S9	2	S7 and S8	US-PGPUB; USPAT	OR	ON	2007/09/13 21:17
S11	1	"6139236".pn.	US-PGPUB; USPAT	OR	ON	2007/09/13 21:13
S12	25	(permut\$3 permutation) and matrix and determinant and (encrypt\$3 encod\$3 cipher\$3) and hash and random	US-PGPUB; USPAT	OR	ON	2007/09/13 21:33
S13	13	(permut\$3 permutation) and matrix and determinant and (encrypt\$3 cipher\$3) and hash and random	US-PGPUB; USPAT	OR	ON	2007/09/13 21:42
S14	13	(permut\$3 permutation) and matrix and determinant and (encrypt\$3 cipher\$3) and hash	US-PGPUB; USPAT	OR	ON	2007/09/13 21:43
S15	261	(permut\$3 permutation) and matrix and (encrypt\$3 cipher\$3) and hash	US-PGPUB; USPAT	OR	ON	2007/09/13 21:43
S16	4	S15 and (block near3 based) near4 encryption	US-PGPUB; USPAT	OR	ON	2007/09/13 21:47
S17	427	(permut\$3 permutation) with message	US-PGPUB; USPAT	OR	ON	2007/09/13 21:47
S18	204	S17 and (encrypt\$3 cipher\$3)	US-PGPUB; USPAT	OR	ON	2007/09/13 21:48
S19	41	S18 and matrix	US-PGPUB; USPAT	OR	ON	2007/09/13 23:10
S20	1	matrix same encrypt\$3 same appended near4 permut\$5	US-PGPUB; USPAT	OR	ON	2007/09/13 23:14

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S22	5	matrix same (multiplication multiply\$3) same (determinant factor) same encrypt\$3	US-PGPUB; USPAT	OR	ON	2007/09/13 23:54
S23	4	encrypt\$3 near4 determinant	US-PGPUB; USPAT	OR	ON	2007/09/13 23:31
S24	348	(permut\$3 permutation) near4 (input message data) same (encrypt\$3 cipher\$3)	US-PGPUB; USPAT	OR	ON	2007/09/13 23:34
S25	79	S24 and matrix	US-PGPUB; USPAT	OR	ON	2007/09/13 23:34
S26	5	S25 and determinant	US-PGPUB; USPAT	OR	ON	2007/09/13 23:34
S27	21	determinant same (encrypt\$3 cipher\$3)	US-PGPUB; USPAT	OR	ON	2007/09/13 23:54
S28	12	determinant same (encrypt\$3 cipher\$3) same matrix	US-PGPUB; USPAT	OR	ON	2007/09/13 23:55
S30	4	determinant same (encrypt\$3 cipher\$3) same matrix same (multiplication multiply\$3)	US-PGPUB; USPAT	OR	ON	2007/09/13 23:58
S31	5	determinant with (encrypt\$3 cipher\$3) same matrix	US-PGPUB; USPAT	OR	ON	2007/09/13 23:58
S32	12	determinant same (encrypt\$3 cipher\$3) same matrix	US-PGPUB; USPAT	OR	ON	2007/09/14 00:00
S33	12	determinant same (encrypt\$3 cipher\$3) same (matrix matrices)	US-PGPUB; USPAT	OR	ON	2007/09/14 00:01
S34	6	((cryptography encrypt\$3) same (matrix matrices)).ti.	US-PGPUB; USPAT	OR	ON	2007/09/14 00:04
S35	86	((cryptography encrypt\$3) same (matrix matrices)).ab.	US-PGPUB; USPAT	OR	ON	2007/09/14 13:56
S36	50	((cryptography encrypt\$3) with (matrix matrices)).ab.	US-PGPUB; USPAT	OR	ON	2007/09/14 00:45
S37	2540	(partition\$3 segment\$3) with (input message data signal) with (matrix matrices)	US-PGPUB; USPAT	OR	ON	2007/09/14 00:49
S38	20	S37 and (comput\$3 calculat\$) with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 00:50
S39	1	S38 and encrypt\$3 with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 00:47
S40	0	S38 and (multiply\$3 multiplication) with martix with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 00:48
S41	2	S38 and (multiply\$3 multiplication) with matrix with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 00:58
S42	1560	(partition\$3 segment\$3) near5 (input message data signal) with (matrix matrices)	US-PGPUB; USPAT	OR	ON	2007/09/14 00:49

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S43	1098	(partition\$3 segment\$3) near5 (input message data) with (matrix matrices)	US-PGPUB; USPAT	OR	ON	2007/09/14 01:14
S44	15	S43 and (comput\$3 calculat\$) with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 00:57
S45	86927	(partition\$3 segment\$3) near5 (input message data)	US-PGPUB; USPAT	OR	ON	2007/09/14 00:57
S46	101	S45 and (comput\$3 calculat\$) with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 00:57
S47	6	S46 and (multiply\$3 multiplication) with matrix with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 01:08
S48	3	S46 and (multiply\$3 multiplication) with matrix with key	US-PGPUB; USPAT	OR	ON	2007/09/14 00:58
S49	3	S43 and (multiply\$3 multiplication) with matrix with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 01:14
S50	2368	380/28,30,4.ccls.	US-PGPUB; USPAT	OR	ON	2007/09/14 16:01
S51	5	S43 and S50	US-PGPUB; USPAT	OR	ON	2007/09/14 01:15
S52	23	("3657476" "4405829" "4658094" "4891781" "4972474" "5210710" "5289397" "5577209" "5692124" "5802178" "5828832" "5832228" "5940591" "5956407" "5974151" "6067620" "6081597" "6272538" "6272639" "6442600" "6459791" "6643698" "6956947").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/09/14 01:16
S53	36	(permutation permut\$3) with input same (block near3 cipher\$3)	US-PGPUB; USPAT	OR	ON	2007/09/14 13:58
S54	0	S53 and (preprocess\$3 same (permutation permut\$3))	US-PGPUB; USPAT	OR	ON	2007/09/14 13:58
S55	0	S53 and (pre\$process\$3 same (permutation permut\$3))	US-PGPUB; USPAT	OR	ON	2007/09/14 13:58
S56	9	S53 and hash same (permutation permut\$3)	US-PGPUB; USPAT	OR	ON	2007/09/14 14:09
S57	0	S56 and public adj3 key	US-PGPUB; USPAT	OR	ON	2007/09/14 14:09
S58	1951	(encrypt\$3 cipher\$4 encod\$3 decrypt\$3) with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 15:10
S59	1117	(encrypt\$3 cipher\$4 encod\$3 decrypt\$3) near5 determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 15:11
S60	517	S59 and (martix matrices)	US-PGPUB; USPAT	OR	ON	2007/09/14 15:11

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S61	894	(encrypt\$3 cipher\$4 encod\$3 decrypt\$3) near3 determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 16:33
S62	422	S61 and (martix matrices)	US-PGPUB; USPAT	OR	ON	2007/09/14 15:11
S63	176	S61 and (martix matrices)	USPAT	OR	ON	2007/09/14 16:00
S64	1	(torus near3 automorphism)	USPAT	OR	ON	2007/09/14 15:40
S65	3011	380/28,30,44.ccls.	US-PGPUB; USPAT	OR	ON	2007/09/14 16:01
S66	14484	"380"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2007/09/14 16:01
S67	3	S62 and S66	US-PGPUB; USPAT	OR	ON	2007/09/14 16:01
S68	2	(decrypt\$3) near3 determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 16:37
S69	3	(decrypt\$3) with determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 16:37
S70	569	(comput\$3 calculat\$3) near3 determinant	US-PGPUB; USPAT	OR	ON	2007/09/14 16:43
S71	408	S70 and matrix	US-PGPUB; USPAT	OR	ON	2007/09/14 16:43
S72	51134	"380"/\$.ccls. "726"/\$.ccls. "713"/\$.ccls.	US-PGPUB; USPAT	OR	ON	2007/09/14 16:44
S73	23	S71 and S72	US-PGPUB; USPAT	OR	ON	2007/09/14 16:44


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» Key

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IET JNL	IET Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IET CNF	IET Conference Proceeding
IEEE STD	IEEE Standard

- ☐ **1. Security Analysis of Public-key Encryption Scheme Based on Neural Net Implementing**
 Niansheng Liu; Donghui Guo;
[Computational Intelligence and Security, 2006 International Conference on](#)
 Volume 2, 3-6 Nov. 2006 Page(s):1327 - 1330
 Digital Object Identifier 10.1109/ICCIAS.2006.295274
[AbstractPlus](#) | Full Text: [PDF](#)(4343 KB) IEEE CNF
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- ☐ **2. Tamper Proofing by Design Using Generalized Involution-Based Concurrent Detection for Involutional Substitution Permutation and Feistel Networks**
 Joshi, N.; Sundarajan, J.; Kaijie Wu; Bo Yang; Karri, R.;
[Computers, IEEE Transactions on](#)
 Volume 55, [Issue 10](#), Oct. 2006 Page(s):1230 - 1239
 Digital Object Identifier 10.1109/TC.2006.167
[AbstractPlus](#) | Full Text: [PDF](#)(1984 KB) IEEE JNL
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- ☐ **3. Avalanche characteristics of substitution-permutation encryption network**
 Heys, H.M.; Tavares, S.E.;
[Computers, IEEE Transactions on](#)
 Volume 44, [Issue 9](#), Sept. 1995 Page(s):1131 - 1139
 Digital Object Identifier 10.1109/12.464391
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- ☐ **4. Observability of permutations, and stream ciphers**
 Byerly, R.E.; Drager, L.D.; Lee, J.M.;
[Information Theory, IEEE Transactions on](#)
 Volume 49, [Issue 12](#), Dec. 2003 Page(s):3326 - 3330
 Digital Object Identifier 10.1109/TIT.2003.820032
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- ☐ **5. Fast Fourier transform based speech encryption system**
 Sridharan, S.; Dawson, E.; Goldberg, B.;
[Communications, Speech and Vision, IEE Proceedings I](#)
 Volume 138, [Issue 3](#), June 1991 Page(s):215 - 223

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6. **A new image encryption algorithm based on chaos system**
Zhang Han; Wang Xiu Feng; Li Zhao Hui; Liu Da Hai; Lin You Chou;
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Volume 2, 8-13 Oct. 2003 Page(s):778 - 782 vol.2
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7. **Arbitrary bit permutations in one or two cycles**
Shi, Z.; Yang, X.; Lee, R.B.;
[Application-Specific Systems, Architectures, and Processors, 2003. Proceedings. International Conference on](#)
24-26 June 2003 Page(s):237 - 247
[AbstractPlus](#) | Full Text: [PDF\(285 KB\)](#) IEEE CNF
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8. **How to distinguish between a block cipher and a random permutation by input entropy**
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9. **Speech encryption based on fast Fourier transform permutation**
Borujeni, S.E.;
[Electronics, Circuits and Systems, 2000. ICECS 2000. The 7th IEEE International](#)
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10. **Provable security of substitution-permutation encryption networks against cryptanalysis**
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[Electrical and Computer Engineering, 2000 Canadian Conference on](#)
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11. **A new public-key cryptosystem family based on feedback shift registers**
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12. **Theory and applications of cellular automata in cryptography**
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13. **New method for continuous speech encryption**
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14. **A new criterion for the design of 8×8 S-boxes in private-key ciphers**
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15. **Transform domain analysis of DES**
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16. **Architectural techniques for accelerating subword permutations with rep**
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17. **Known plaintext cryptanalysis of tree-structured block ciphers**
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18. **Software performance characterisation of block cipher structures using linear mappings**
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19. **The spatial-domain encryption of digital images based on high-dimension**
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20. **Impossible Differential Cryptanalysis for SPN Cipher Structure and Advan Standard**
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21. **The COFB Mode of Operation and Its Security Analysis**
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22. **A timing attack on the CIKS-1 block cipher**
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23. **Improved Baker map for image encryption**
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24. **A new DDP based cipher CIKS-128h architecture design LSI implementat of CBC encryption hashing over 1Gbps**
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25. **Cryptography in NC/sup 0/**
Applebaum, B.; Ishai, Y.; Kushilevitz, E.;
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encrypting determinant matrix

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6.5 - Applications of Matrices and Determinants

Let D_x be the **determinant** of the coefficient **matrix** where the x column has been The receiver must calculate the inverse of the **encryption matrix**. ...

www.richland.edu/james/lecture/m116/matrices/applications.html - 23k -

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Matrix (mathematics) - Wikipedia, the free encyclopedia

The **determinant** of a square **matrix** A is the product of its n eigenvalues, Decryption is done simply by multiplying the **encrypted matrix** with the ...

[en.wikipedia.org/wiki/Matrix_\(mathematics\)](http://en.wikipedia.org/wiki/Matrix_(mathematics)) - 62k - [Cached](#) - [Similar pages](#)

Hill cipher - Wikipedia, the free encyclopedia

If the **determinant** of the **matrix** is 0, or has common factors with the ... so triple **encryption** was recommended for security: a secret nonlinear step, ...

en.wikipedia.org/wiki/Hill_cipher - 35k - [Cached](#) - [Similar pages](#)

Application of Invertible Matrices: Coding

One way to **encrypt** or code a message uses matrices and their inverse. ... Indeed, if A is a **matrix** such that its **determinant** is $\neq 0$...

www.sosmath.com/matrix/coding/coding.html - 12k - [Cached](#) - [Similar pages](#)

Introduction - String Encryption with matrixes - Developer Fusion ...

Public Function **Encrypt**(Text As String, **Matrix** As String) If Len(Text) = 2 Then ... Dim **Determinant** As Integer Dim Code() As Integer Dim Txt() As Integer ...

www.developerfusion.co.uk/show/1832/ - 23k - [Cached](#) - [Similar pages](#)

Matrix Determinant Value of Zero

If the **determinant** of the coefficient **matrix** is zero, than there is no unique ... OS; Storage; **Encryption**; Operating Systems Security; Apple Hardware ...

www.experts-exchange.com/Other/Math_Science/Q_22809065.html - 56k -

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Inverse of a matrix... which is correct?

OS; Storage; **Encryption**; Operating Systems Security; Apple Hardware Your sample **matrix** has a very low **determinant** (about 0.0000197, from the excellent ...

www.experts-exchange.com/Programming/Algorithms/Q_22572446.html - 63k -

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[PDF] A Parallel Algorithm for determining the inverse of a matrix for ...

Determining the inverse of a **matrix** for use in blockcipher **encryption**/decryption

However, when a **matrix** is chosen for Block-cipher **encryption**, ...

www.springerlink.com/index/W2581578W7P16546.pdf - [Similar pages](#)

[DOC] Blogs can serve as an example here

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under the condition, that the transformation **matrix** will have the inverse **matrix**, i.e. **determinant** is not vanishing. Subject to, set of basis function is ...

acs.wi.ps.pl/download.php?acs=17&type=file&id=69&hash=2812b89dcfbb850469614936b9d44511&PH... - [Similar pages](#)

Borys Bradel's n-Hill Cipher Applet Page

If an error dialog appears, the **encryption matrix** does not have an appropriate ... The **determinant** modulo m for the matrices is found by reducing the ...

www.eecg.toronto.edu/~bradel/projects/cryptography/index.html - 8k -

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